VL5Arc™

wash luminaire

The VARI✻LITE® VL5Arc™ wash luminaire uses a 575W, 5600ºK arc lamp, combined with the VARI✻BEAM™ mechanism. This diffusion device uses a fluid-filled plastic membrane to provide powerful automated beam angle variation.

The innovative DICHRO✻TUNE™ radial color changer with enhanced dichroic filters produces smooth, full color spectrum crossfades. An internal douser provides intensity control.

The VL5Arc luminaire is compact, lightweight and hangs on 18 in. (460 mm) centers. This luminaire can be controlled from any VARI✻LITE console, or can be controlled from a wide variety of DMX consoles.

Programmable Functions

COLOR:	Enhanced DICHRO✻TUNE cross-fadable dichroic colors feature independent cyan, magenta and amber color control. Smooth, timed color crossfades can occur in as little as 0.7 second.
INTENSITY CONTROL:	An internal douser provides intensity control.
BEAM SIZE CONTROL:	VARI✻BEAM mechanism provides continuous time beam control.
PAN AND TILT:	Smooth, time-controlled continuous motion by way of a digital servo system.
RANGE:	Pan - 360˚, Tilt - 270˚.
MAX VELOCITY:	220˚ per second.
ACCURACY:	0.3˚ resolution.

Description

SOURCE:	575W arc lamp, 5600˚K integrated color temperature, 90 CRI.
POWER AND DIMMING REQUIREMENTS:	Luminaires are powered through the Smart Repeater™ processing unit. Lamps are powered by the APS6™ module. The APS6 module operates at 85 to 265 VAC, 50/60 Hz, requiring 5 to 10A, depending on line voltage.
REFLECTOR:	8 inch glass dichroic cold-mirror reflector.
OPERATIONAL TEMPERATURE:	-20˚ to 120˚F (-29˚ to 49˚C).
COOLING:	Convection cooled.
CONTROL:	Completely compatible with either the VARI✻LITE automated lighting system, featuring the Artisan®Plus and mini-Artisan®2 control consoles, or by consoles with DMX-512 output.
MOUNTING POSITION:	The VL5Arc wash luminaire can be mounted and operated in any orientation.
SPACING:	Hangs on 18 in. (460 mm) centers.
WEIGHT:	29 lbs (14 kg).

Accessories

71.2528.0575	575W Arc Lamp
22.9634.0217	Series 300™ Truss Hook
22.9634.0145	Series 300 Safety Cable
22.9634.0161	Series 300 Floor Stand
22.9634.0206	Top Hat/Gel Holder with Rings
22.9634.0207	Top Hat/Gel Holder without Rings
25.7042.0006	6 ft. Shielded Series 300 Lamp Cable
25.7042.0012	12 ft. Shielded Series 300 Lamp Cable
25.7042.0020	20 ft. Shielded Series 300 Lamp Cable
25.7042.0050	50 ft. Shielded Series 300 Lamp Cable
25.7042.0100	100 ft. Shielded Series 300 Lamp Cable
25.7042.0XXX	Custom Length Shielded Series 300 Lamp Cable* *Cannot exceed 300 ft. in length.
20.9625.0018	Series 300 Molded Plastic Six Luminaire Case
20.9625.0024	Series 300 Molded Plastic Work Trunk
22.5011.0083	Spare Components Set
22.5011.0081	Spare Assemblies Set

Specifications

The unit shall be an integrally designed, remote controlled motorized wash luminaire. The housing and yoke shall be constructed of aluminum alloy and steel for lightweight strength.

The front nose ring and rear housing shall be hinged and latched providing ease of access to the lamp and lens for replacement. The lamp shall be a 575W arc lamp that shall operate at a color temperature of 5600˚K. A fluid-filled flexible membrane shall be attached to a glass lens. The liquid lens shall operate to control beam divergence for the unit. An internal pump forces fluid in and out of the lens to change the curvature of the lens surface, thereby providing a continuously variable range of beam control.

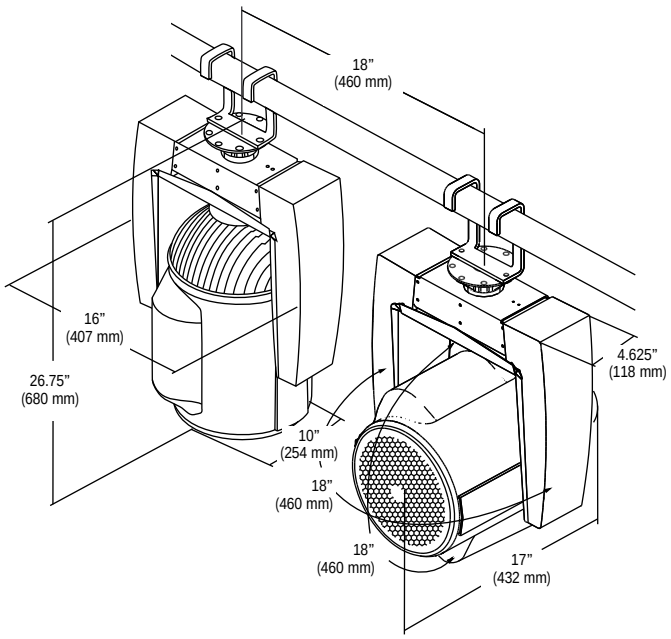
Two enclosed, high torque servomotors shall be provided to permit movement of the head on a horizontal plane of 360˚ and on a vertical plane of 270˚. Control cabling shall be run internally to prevent tangling. The low voltage motors shall be belt driven, providing positional resolution and repeatability within 0.3˚ on either axis. Manual override under power shall result in no harm to the drive mechanism.

Each unit shall be equipped with an on-board microprocessor providing diagnostic and self-calibration functions. In the event the luminaire encounters any physical obstruction during calibration, the pan and tilt motors will automatically be disabled preventing damage to the mechanisms.

The unit shall have three color changers holding a minimum of 16 frames of dichroic media of a typical color set: magenta, amber, and cyan. Three motors shall provide independent drive regardless of direction of movement. Positional accuracy of the dichroic filters in reference to the beam shall be ensured through specialized software controlling the motors. The color changers shall be capable of movement from fully opened to fully closed in less than 0.7 seconds.

The unit shall contain a dimmer mechanism holding a minimum of 16 black aluminum dimmer panels that intercept the beam, providing a continuously variable dimmer range. The dimmer mechanism shall be capable of movement from fully open to fully closed in less than 0.7 seconds.

Control cable to luminaire shall provide both digital control signal and power from the Smart Repeater unit. A safety cable shall be provided with unit. A floor stand and an optional top hat shall be available. Exterior finish shall be a black epoxy coat. Total weight shall not exceed 29 lbs (14 kg).



Photometric Data

VL5Arc Wash Luminaire - 575W MSR lamp

DIFFUSION	CANDELA (cd)	BEAM ANGLE (DEGREES)	BEAM DIAMETER TN[1]	FULL FIELD ANGLE (DEGREES)	FIELD DIAMETER TN[1]
None	568,000	5˚	.09	13˚	.23
Full	93,200	17.5˚	.31	34˚	.61

[1] Multiply distance by Tn to determine beam/field diameter.

To calculate Illuminance (I) at a specific distance (D): $I = \frac{cd}{D^2}(\cos\theta)$

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